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Minimum
Maximum
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                                                                                                              Database
                                                                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 10
                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 OM protein - protein search, using sw model
                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
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geq
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length: 2000000000
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83
  8 7 6 5 4
                                                                                                                                                                                                                                                                                                            BLOSUM62
                                                                                                A_Geneseq_23Sep04:*
1: geneseqp1980s:*
                                                                                                                                                                                                                                                                 2002273 seqs, 358729299 residues
                                                                                                                                                                                                                                                                                           Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                       January 21,
                                                                                                                                        Listing
                                                                                                                                                                                                                                                                                                                                      ADSGEGDFLAEGGGVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyright
                                      geneseqp1980s:*
geneseqp1990s:*
geneseqp2000s:*
geneseqp2001s:*
geneseqp2002s:*
              geneseqp2003as:*
geneseqp2003bs:*
geneseqp2004s:*
                                                                                                                                          first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                          2005, 08:04:52; Search time 83 Seconds (without alignments) 69.153 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GenCore version 5.1.6 (c) 1993 - 2005 Compus
                                                                                                                                                                                                                                                                                            Gapext 0.5
                                                                                                                                                        100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Compugen Ltd
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Regult No.	Score	Query Match Le	Length	BB	ID	ption
1	83	100.0	16	2	AAR96194	Aar96194 Fibrinoge
2	83	٠	16	N	AAW04619	9
ω	83	100.0	16	N	AAY57487	7
4.	83	8	16	4	ABB56219	Abb56219 Vascular
<sub>5</sub>	83	8	16	4	AAB91959	Aab91959 Fibronect
6	83	100.0	16	4	ABB52337	7
7	83	٠	16	ហ	ABG73668	Abg73668 Linear HI
8	83	100.0	16	ហ	ABG78799	Abg78799 Multiple
9	83	٠	16	ហ	ABG70000	
10	83	100.0	16	Ç	ABG69911	
11	83	100.0	16	σ	ABP60019	
12	83	100.0	16	σ	ABP60640	
13	83	100.0	16	σ	ADA18542	
14	83	100.0	16	σ	ABR58740	
15	83	100.0	16	7	ADF51340	Adf51340 Antiangio
16	83	100.0	16	7	ADK41579	
17	83	8		æ	ADF90108	Adf90108 Human fib
18	83	100.0	16	Φ	ADN31682	Human
19	83	100.0	16	œ	ADQ96599	Adq96599 Human alp
20	83	100.0		4	AAB91960	0 Fibro
21	83	100.0	17	σ	ABU08833	
22	83		17	σ	ABU09101	Abu09101 Alpha fib
23	83	100.0	17	œ	ADG93163	
24	83	٠	17	œ	ADJ65841	Adj65841 Fibrinope
25	83	100.0	17	æ	ADN03327	Adn03327 Exemplary

45	44	43	42	41	40	39	38	37	36	3 5	34	33	32	31	30	29	28	27	26
83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	8
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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ADF51327	ADF51362	AA027097	AA027090	AA021115	AA021112	AA021113	AA021114	AAR96182	AAR96190	AAP90276	AAR96183	ABG69912	AAY57488	AAR96191	AAR96192	ADA18541	ABU08837	ABU08834	AAR96193
Adf51327	Adf51362	Aao27097	Aao27090	Aao21115	Aao21112	Aao21113	Aao21114	Aar96182	Aar96190	Aap90276	Aar96183	Abg69912	Aay57488	Aar96191	Aar96192	Ada18541	Abu08837	Abu08834	Aarybiys
Antiangio	Antiangio	Fibrinoge	Fibrinoge	Anti-angi	Anti-angi	Anti-angi	Anti-angi	Fibrinoge	Fibrinoge	Antigen p	Fibrinoge	Rabbit pl	Antimicro	Fibrinoge	Fibrinoge	Human alp			Fibrinoge

ALIGNMENTS

RESULT 1
AARS6194
ID AARS6
XX AARS
XX AARS
XX PARS
XX AAR96194; Fibrinogen epitope probe, represents alpha chain residues 1-16. 19-DEC-1996 AAR96194 standard; peptide; (first entry) 16 Å

Epitope; cleavage product; human; leukocyte elastase; HLE; fibrinogen; monoclonal antibody; probe; detection; antigen; blood; peritoneal fluid; sputum; broncheoalveolar lavage fluid; assay; inhibitor; arthritis; pulmonary emphysema; chronic bronchicis; cystic fibrosis; bronchiectasis; chronic obstructive pulmonary disease; myelogenous leukaemia; infantile respiratory distress syndrome; gout; adult respiratory distress syndrome.

Homo sapiens

WO9614580-A1

17-MAY-1996

03-NOV-1995; 95WO-US013794.

07-NOV-1994; 06-JUN-1995; 94US-00335524. 95US-00469141.

(MERI ) MERCK & CO INC.

Mumford RΑ, Davies DTP, Dahlgren M H Boger JS, Humes ij,

WPI; 1996-251888/25.

New isolated fibrinogen derived cleavage products - used for detection leukocyte elastase activity in disease diagnosis and for evaluating elastase inhibitors. of.

Example 5; Page 42; 109pp; English.

The sequences given in AAR96182-94 represent antigenic probes derived from the first 21 amino acids of human fibrinogen. These probes are used to determine antibody titre against other fibrinogen cleavage products. The monospecific antibodies may be used to assay for the formation of complimentary cleavage product antigens or epitopes in whole blood or other body fluids, peritoneal fluid, sputum or bronchecalveolar lavage fluid. The assay for cleavage products is dependent upon the presence of

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RESULT 2
AAW04619
ID AAW0
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Best Local S
Matches 16
                             Matches
                                                              Query Match
                                                                                                                                 A method of obtaining sequence information about a polymer (e.g. DNA, RNA, peptide nucleic acids, proteins, peptides and carbohydrates) comprising monomers of known mass has been claimed. The present sequence represents a fibrinopeptide A peptide, and was used as an example as a digestion before analysis by mass spectrometry, using this novel on-plate strategy. Total sequence information from a nine well digestion can be represented in a single digestion or it is often derived from two or more wells. The methods, apparatus and kit (claimed) can be used for the analysis of polymers, particularly biopolymers, e.g. DNA, RNA, peptide nucleic acids, proteins, peptides and carbohydrates. It provides a rapid, automated and cost effective sequencing of polymers, with a statistical
                                                                                                                                                                                                                                                                                                                                                              Sequencing polymers, e.g. DNA, RNA, peptide nucleic acids, - by obtaining mass to charge ratios of polymer fragments, mass spectrometer, and performing statistical analysis.
                                                                                             Sequence 16 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patterson DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-MAY-1995;
19-MAY-1995;
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                                                                                                                                                                                                                                                                                                                                 Example 2; Page 32; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (PERS-) PERSEPTIVE BIOSYSTEMS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-MAY-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mass spectrometry; polymer analysis; biopolymer analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW04619;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fibrinopeptide A peptide for mass spectrometry analysis.
                                               Local Similarity
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                             16;
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 ADSGEGDFLAEGGGVR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 83; illarity 100.0%; Pred. No. Conservative 0; Mismatch
                                Conservative
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95US-00447175
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               GE ;
                                             100.0%;
                               0;
                                            Score 83; DB 2;
Pred. No. 1.3e-05;
                                Mismatches
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                                                           Length 16;
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RESULT 3
AAY57487
ID AAY5
XX AAY5
XX AAY5
XX AAT1
XX WO92
XX WO92
XX WO92
XX WO92
XX H0-1
XX H0-1
XX H0-1
XX H0-1
XX AAT1
XX A
RESULT 4
ABB56219
ID ABB5
XX
AC ABB5
XX
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes an antimicrobial peptide (AP) for direct activity or for potentiating antimicrobial agents active against organisms such as bacteria and fungi. The AP comprises: (a) a peptide containing an amino acid sequence selected from the group consisting essentially of a first peptide template XEDEXBAND and its derivatives selected from XZBBZENEAB, BEXZAB, XEDEXZENEAN and BEXZENEA; and (the second peptide template XEDEXX, ADEXZENEAN and ENEXZENEAN and ENEXZENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16 AA;
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                                                                                                                               ABB56219 standard;
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100.0%; Pred. No. 1.3e-05;
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                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of cerebrospinal fluid (CSF) from the subject one of 23 VD-associated protein isoforms (VPIs) (ABB55801-ABB66295) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the screening, diagnosis or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for come thereon.
                             Protection; endogenous therapeutic peptide; peptidase; con blood component; modification; succinimidyl; maleimido gro hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Screening, diagnosis or prognosis of vascular dementia (VD), useful determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-MAR-2000; 2000GB-00006285
24-NOV-2000; 2000GB-00028734
28-NOV-2000; 2000US-00724391
Homo sapiens
                                                                                            Fibronectin fragment and fibrin related peptide
                                                                                                                           22-JUN-2001
                                                                                                                                                          AAB91959;
                                                                                                                                                                                        AAB91959 standard; peptide; 16
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-557937/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Herath HMAC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200169261-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vascular Dementia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vascular dementia-associated protein isoform
                                                                                                                                                                                                                                                                                                                                                                                                                            treatment of VD and for gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAR-2001; 2001WO-GB001106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (OXFO-) OXFORD GLYCOSCIENCES UK LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6; Page 39; 151pp; English.
                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                    ADSGEGDFLAEGGGVR 16
                                                                                                                                                                                                                                                                                        ADSGEGDFLAEGGGVR 16
                                                                                                                                                                                                                                                                                                                               100.0%;
nilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prognosis; gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parekh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VD; VD-associated protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RВ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rohlff C
                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                             Score 83; DB
Pred. No. 1.3
0; Mismatches
                                                                                                                                                                                                                                                                                                                                 1.3e-05;
                                                                                                                                                                                                                                                                                                                                                              DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                isoform; VPI; screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (VPI) 419.
                                                                                                                                                                                                                                                                                                                                                            Length 16;
                                                                                              SEQ ID NO:1135
                                                                                                                                                                                                                                                                                                                                  Indels
                                             group;
                                                             conjugation;
                                                                                                                                                                                                                                                                                                                                 0
                                                amino;
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ABB52337
ID ABB5
XX
AC ABB5
XX
DT 08-F
XX
Huma
XX
Homc
XX
OS Homc
XX
PD 11-C
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes a modified therapeutic peptide (I) C comprising a therapeutically active amino acid region (III) and a creactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in crowledge are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases contracellular uptake and interference with physiological processes. AAB90829 to AAB9241 represent peptides which can be used in the covered to contracellular uptake and interference with physiological processes.
                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-MAY-1999;
10-SEP-1999;
15-OCT-1999;
                                                                                                         Human; neuroprotective; nootropic; gene therapy; vaccine; Alzheimer's disease; Alzheimer's Disease; Alzheimer's Disease-Associated Protein Isoform; API; tryptic Expression Reference Protein Isoform; ERPI; proteolysis.
                                                                                                                                                                                        Human
                                                                                                                                                                                                                    08-FEB-2002
                                                                                                                                                                                                                                                                                  ABB52337 standard; peptide; 16 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 567; 733pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modifying and attaching therapeutic peptides peptidase degradation, useful for increasing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-112059/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bridon DP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-MAY-2000; 2000WO-US013576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-NOV-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (CONJ-) CONJUCHEM INC.
                                                                                                                                                                                       API-118
                                                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                           μ
                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                          ADSGEGDFLAEGGGVR 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ezrin AM,
                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                     tryptic digest
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99US-0153406P.
99US-0159783P.
                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Milner
                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                     peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 83; DB 4;
Pred. No. 1.3e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,
PG
                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                        #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to albumin prevents length of in vivo activity.
                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Thibaudeau
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                         digest;
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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0,

WO200175454-A2

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RESULT 7
ABG73668
ID ABG73
XX ABG7
XX ABG7
XX ABG7
XX Y Spl1
XX Y Spl1
XX Y T-h
XX Y HIV
XX Huma
OS Synt
XX Synt
XX DE10
XX DE10
XX DE10
XX DE10
XX DE10
XX ABG7
XX DE10
XX Huma
XX DE10
XX ABG7
XX DE10
XX Synt
XX DE10
XX DE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Peatures (AFS) and Alzheimer's Disease-Associated Protein Isoforms (APIs) in cerebrospinal fluid, serum or plasma. The abundance of the AFS and APIs is then normalised to an Expression Reference Protein Isoform (ERPI) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's Disease. The relative abundance of the AFS and APIs correlates with the severity of Alzheimer's Disease. The present sequence is a peptide produced from an API by proteolysis
                              WPI; 2002-752120/82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gp120; interaction; co-receptor; CXCR4; CCR5;
7-helix transmembrane receptor; glycopeptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons.
                                                                                                                                                                                                                                        09-MAR-2001; 2001DE-01013042.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Linear HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG73668 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-APR-2000;
28-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-APR-2001;
                                                                                 Schreiber M,
                                                                                                                                                                                                                                                                                                                                                DE10113042-A1.
                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                            Human immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example; Page 33; 162pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-639384/73
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Potter DM,
                                                                                                                                   (NOCH-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Townsend RR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PFIZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ADSGEGDFLAEGGGVR 16
                                                                                                                                   NOCHT INST TROPENMEDIZIN BERNHARD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADSGEGDFLAEGGGVR
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Rohlff C,
R, White F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-0194504P.
2000US-0253647P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gp120 V3-loop derived peptide ligand SEQ ID
                                                                                                                                                                                       2001DE-01013042.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001WO-US010908
                                                                                 Seifert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DL, Herath HMA, Silber BM, S
F, Williams SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.3e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         refractive index; V3 virucide; anti-HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sunderland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 16;
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lerland PT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 loop;
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Identifying compounds that modify interaction of gp120 and co-receptors, useful potentially for treating human immune deficiency virus infection, also new peptides.
                                                                                                                              Claim 10; Page 56; 68pp;
                                                                                                                                German
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Detween the gpl20 protein of human immunodeficiency virus (HIV), or its cragments, with the co-receptors CXCR4, CCR5 and/or other 7-helix CX transmembrane receptors for HIV. The method comprises (a) immobilizing a cligand for the co-receptor on a gold surface, (b) contacting the ligand CX ligand for the co-receptor on a gold surface, (b) contacting the ligand CX with suspended cells that express the co-receptor; and (c) determining contaction by measuring the refractive index (RI) by plasmon resonance. The procedure is repeated using cells that have been incubated with a cest compound, and this is identified if RI is lower for cells cest compound, and this is identified if RI is lower for cells corrected with a compound, and this is identified if RI is lower for cells compound, and this is a linear or cyclic (glyco)peptide compound, and this is identified if RI is lower for cells compound, and this is identified in a linear or cyclic (glyco)peptide compound in the amino acid sequence of an HIV V3 loop (including contact). The products of the invention have virucide and anti-HIV chaman immunodeficiency virus) activity and are useful for prevention conditions and/or treatment of HIV infection. This sequence represents a linear HIV-conversed peptide ligand described in the disclosure of the This invention describes novel substances that modify the interaction (HIV), or it

Sequence 16 AA;

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S
                   Matches
                         Query Match
Best Local :
                   16;
                          Similarity
ADSGEGDFLAEGGGVR 16
                  Conservative
                         100.0%;
                   0,
                         Score 83;
Pred. No.
                   Mismatches
                         DB 5; 1.3e-05;
                   0;
                                Length 16
                   Indels
                   0
                   Gaps
                   0
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ADSGEGDFLAEGGGVR 16

ABG78799 standard; peptide; 16

ABG78799;

29-NOV-2002 (first entry)

Multiple sclerosis associated feature (MSF) tryptic digest peptide #287.

antiinflammatory; neuroprotective. Multiple sclerosis; MS; multiple sclerosis associated feature; MSAF; human; multiple sclerosis-associated protein isoform; MSPI;

Homo sapiens

WO200259604-A2

01-AUG-2002

25-JAN-2002; 2002WO-GB000330

26-JAN-2001; 2001US-0264404P 20-NOV-2001; 2001US-0331647P

(OXFO-) OXFORD GLYCOSCIENCES UK LTD

Herath HMAC, Parekh RB, Rohlff C;

WPI; 2002-599812/64.

RESULT 8
ABG77879
IID ABG77
XX ABG77
XX ABG77
XX Mult
XX Mult
XX Mult
XX Mult
XX Mono
XX Homo
XX WO20
PM 25-J
PR 26-J
PR 26-J
PR 20-N
XX WPI;
XX SCRE Screening or diagnosing multiple sclerosis (MS), useful for edetermining the stage or severity of MS, comprises detecting tof MS-associated features or protein isoforms by 2-dimensional Disclosure; Page 32; 128pp; English electrophoresis. 2-dimensional the presence

This invention relates to a novel method for screening or diagnosing

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ARESULT 9
ABG700000
ID ABG700000
ID ABG700000
ID ABG7
AC ABG7
XX ABG7
XX Anti
XX Anti
XX Anti
XX WO20
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                                The invention relates to an antimicrobial peptide composition for use against organisms such as bacteria and fungi comprising a peptide of 5-150 amino acids containing a 7-13 amino acid core sequence (derived from PMP-1 and PMP-2, platelet microbiocidal protein), and retromers,
                                                                                                                                                                                                                                                                                                      New antimicrobial peptide composition for the prevention and treatment infections caused by organisms, such as bacteria and fungi, exhibiting multiple antibiotic resistance.
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                                                                                                                                                                                                                                     Disclosure; Page 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Yeaman MR,
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combinations, fusions and their derivatives. The

New antimicrobial peptide composition for the prevention and treatment infections caused by organisms, such as bacteria and fungi, exhibiting multiple antibiotic resistance.

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Disclosure; Page 135; 221pp; English

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RESULT 10
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                                                                                                                                                                                                                                                                                Yeaman MR,
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                                                                                                                                                                                                                                                                                Shen AJ;
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antibiotic resistance;
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CC and retromers, extensions, combinations and thusions; and (2) and retromers, extensions, combinations and thusions; and (2) elukocytes against organisms such as bacteria and fungi. The antimicrobial peptides are useful as individual antimicrobial agents, comeinticrobial peptides are useful as individual antimicrobial agents, gentis that enhance, potentiate or restore efficacy of conventional antimicrobials, agents that enhance the antimicrobial functions of leukocytes, as disinfectants or preservatives for use in foods and cosmetics and as agents to improve efficiency of molecular biology techniques. Antimicrobial peptides of prior art have generally been considered to have undesirable toxicity, immunogenicity and short that-lives due to biodegradation. The peptides of the present invention are based upon natural antimicrobial peptides that have potent and broad spectrum activity against pathogens exhibiting multiple antibiotic resistance. They exhibit lower inherent mammalian cell toxicities and covercome problems of toxicity, immunogenicity, and shortness of duration of effectiveness due to biodegradation, retaining activity in plasma and covercome problems of toxicity, immunogenicity, and shortness of duration of effectiveness due to biodegradation, retaining activity in plasma and covercome problems of toxicity, immunogenicity, and shortness of duration of effectiveness due to biodegradation, retaining activity in plasma and covercome problems of toxicity, immunogenicity and shortness of duration of effectiveness due to biodegradation, retaining activity in plasma and covercome problems of toxicity against pathogens which the problems of toxicity against pathogens and toxicity in plasma and covercome problems of toxicity against pathogens are pathogens and toxicity in plasma and covercome problems of toxicity against pathogens are pathogens and toxicity in plasma and covercome problems of toxicity against pathogens are pathogens and toxicity in plasma and covercome problems of toxicity against pathogens 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biopolymer; disease alpha fibrinogen.
                                                                                                                                                                                Jackowski G,
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                                                                                                                                                                             Thatcher B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      specific marker; marker; myocardial infarction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 83; 100.0%; Pred. No.
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                                                                                                                                                                                Marshall J,
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ches 0;
                                                                                                                                                                                Yantha J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5
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New biopolymer marker or its analyte, useful for determining the presence or absence of at least one particular disease state, such as myocardial infarction.

Query Match Best Local Similarity

100.0%;

Score Pred.

83; No.

DB 6; 1

Length 16;

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                          The invention relates to a novel method for the identification of a polypeptide involving a step of derivatising the N-terminus of the polypeptide or the N-termini of one or more polypeptides with acidic reagent containing a sulfonyl or sulfonic acid moiety coupled to an activated ester moiety, analysing the derivative using mass spectrometry and interpreting the resulting fragmentation pattern. The present sequence represents Fibrinopeptide A, used in example 3 of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    state, such as myocardial infarction. The method is useful for evidencing and categorising at least one biopolymer marker sequence to determine the presence or absence of at least one disease state. This marker is characterised as an alpha fibrinogen having a molecular weight of 1518 daltons. The current sequence represents the biopolymer disease specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a biopolymer disease specific marker. The biopolymer marker is useful in indicating at least one particular disease state, such as myocardial infarction. The method is useful for evidencing
Sequence 16
                                                                                                                                          Example 3;
                                                                                                                                                                                  Identification of polypeptide useful in proteomics, involves derivatizating N-terminus or N-termini of polypeptide with acidic reagent containing sulfonyl or sulfonic acid moiety coupled to activated ester
                                                                                                                                                                                                                                           WPI; 2003-175111/17.
                                                                                                                                                                                                                                                                                    Bhikhabhai
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20-DEC-2001; 2001US-0343019P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fibrinopeptide A; N-terminus; protein identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fibrinopeptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         marker of the invention
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                                                                                                                                          Page 29; 90pp; English.
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Vaughn HL,
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Yelm KE;
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Pred. No.
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ABSULT 13
ADA18542
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RESULT 14
ABR58740
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                           The invention relates to a biopolymer marker useful in indicating at least one particular disease state. This marker is characterised as alpha fibrinogen having a molecular weight of 1536 Daltons and is useful for indicating a disease state, in particular myocardial infarction. The marker sequences are useful as antigens in immunoassays for the detection of those individuals suffering from the disease known to be evidenced by the marker sequence. The marker provides an efficient diagnostic tool for rapidly and accurately diagnosing disease states such as myocardial infarction. The marker was detected by the technique of surfaces enhanced for laser desorption/ionisation (SELDI) mass spectroscopy. The present sequence is the alpha fibrinogen marker peptide.
 ABR58740;
                                    ABR58740 standard; peptide; 16
                                                                                                                                                                                                                                                                              Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; Page 7; 10pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    particularly myocardial infarction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Biopolymer marker useful in indicating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jackowski G,
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surfaces enhanced
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16; Conserv
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MARSHALL J.
YANTHA J.
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                                                                                                                                                                   ADSGEGDFLAEGGGVR 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human; myocardial infarction; SE for laser desorption/ionisation.
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,. 1.3e-05;
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                                                                                                                                                                                                                                         Length 16;
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RESULT 15
ADF51340
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Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to methods for screening or diagnosing Alzheimer's disease (AD) to determine the stage or severity of AD in a subject, to identify subject at risk of developing AD, or to monitor the effect of therapy administered. The methods comprise analysing a test sample of body fluid by 2-dimensional electrophoresis to generate a 2-dimensional array of AD-associated features (AFS). The method alternatively comprises quantitatively detecting in a sample of body fluid from the subject, one or more AD-associated protein isoforms (APIs;
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Potter DM,
                                                                                                                                                                                                                                          fibrinogen; an cancer; human;
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                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                           Antiangiogenic fibrinogen derived peptide 66.
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                                       Modified-site
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PT, Townse
                                                                                                                                                                                                                                                                          antiangiogenic; cytostatic;
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ilarity 100.0%;
Conservative 0
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Rohlff C, Silber BM, Snyder
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/note= "N-terminal acetyl"
                                                                    Location/Qualifiers
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Pred. No.
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Williams
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Search completed: January 21, 2005, 08:31:10 Job time : 88 secs
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                                                                                                                Query Match 100.0%; Score 83; DB 7; Length 16
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 16; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                  This invention relates to a novel polypeptide derived from fibrinogen comprising 15 or less amino acids which has antiangiogenic activity. The invention may be useful for the development of compounds with a cytostatic activity through the inhibition of angiogenesis. The sequences of the invention may be useful for gene therapy. The polypeptide is useful for inhibiting angiogenesis and in preparing a composition for
                                                                                                                                                                                                                                                                                                                                                     New polypeptide derived from fibrinogen and having anti-angiogenic activity, useful for preparing a composition for treating cancer.
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19-FEB-2002; 2002GB-00003883.
23-JUL-2002; 2002GB-00017067.
                                                                                                                                                                          Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                           Example 37; Fig 3; 66pp; English.
                                                                                                                                                                                                      treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NOVS ) NOVARTIS AG.
(NOVS ) NOVARTIS PHARMA GMBH.
(BIOA-) BIOACTA LTD.
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/note= "C-terminal amide"
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Result
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Maximum DB seq
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length: 2000000000
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1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfIles1.pep:*
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Maximum Match 100%
Listing first 45 summaries
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US-08-796-598-14
US-08-447-175A-14
US-08-447-175A-14
US-08-449-141A-56
PCT-US95-13794-55
US-09-845-141A-54
PCT-US95-13794-54
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US-08-481-810-1
US-08-481-810-1
US-08-481-810-1
US-08-480-11A-53
US-08-480-11A-53
PCT-US95-13794-45
US-08-469-141A-52
PCT-US95-13794-44
PCT-US95-13794-44
PCT-US95-13794-44
PCT-US95-13794-45
US-08-469-141A-52
PCT-US95-13794-45
US-08-469-141A-52
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US-08-469-141A-52
PCT-US95-13794-44
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PCT-US95-13794-44
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               14, Appl
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59, Appl
                  Best Loc
Matches
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<b>4</b> 5	44	43	42	41	40	39	38	37	36	35	34	33 33	32	31	30	29	28
46	46	52	52	52	53	53	88	88	63	63	69	83	83	83	83	83	83
55.4	55.4	62.7	62.7	62.7	63.9	63.9	69.9	69.9	75.9	75.9	83.1	100.0	100.0	100.0	100.0	100.0	100.0
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US-09-129-192C-45	US-08-792-553-11	US-08-978-404B-48	PCT-US95-13794-6	US-08-469-141A-6	5433940-25	5196404-18	5196404-16	US-09-846-350A-1	PCT-US95-13794-46	US-08-469-141A-46	US-09-845-725A-1	US-09-373-157-4	US-09-919-039-121	US-08-206-176-2	PCT-US93-12687-4	US-08-551-356-4	US-07-963-538B-9
Sequence 45, Appl	Sequence 11, Appl	Sequence 48, Appl	Sequence 6, Appli	Sequence 6, Appli	Patent No. 5433940	Patent No. 5196404	Patent No. 5196404	Sequence 1, Appli	Sequence 46, Appl	Sequence 46, Appl	Sequence 1, Appli	Sequence 4, Appli	Sequence 121, App	Sequence 2, Appli	Sequence 4, Appli	Sequence 4, Appli	Sequence 9, Appli

ALIGNMENTS

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RESULT 1
US-08-796-598-14
                                                                                                                                                                                                    CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 08/446
PILING DATE: 19-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: FLYNN BEG, Kerry A.
REGISTRATION NUMBER: 33,693
REFERENCE/DOCKET NUMBER: SYP-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEPAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
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APPLICANT: PATTERSON, DALE H.
APPLICANT: PART, GEORGE E.
APPLICANT: TARR, GEORGE E.
APPLICANT: TARR, GEORGE E.
APPLICANT: TOURN METHODS AND APPARATUS FOR SEQUENCING TITLE OF INVENTION: POLYMERS USING MASS SPECTROMETRY.
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/796,598
FILING DATE: 07-FEB-1997
                                                                                                                TOPOLOGY: linear MOLECULE TYPE: peptide
y Match 100.0%; Score 83; DB 2; l
Local Similarity 100.0%; Pred. No. 3.8e-06;
hes 16; Conservative 0; Mismatches 0;
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CITY: Boston
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                                                                                                                                                                                    TYPE: amino acid
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Best Local Similarity
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CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/447,175A
FILING DATE: 19-MAY-1995
CLASSIFICATION: 422
ATTORNEY/AGENT INFORMATION:
NAME: RAUSCHENBACH, KUTT
REGISTRATION NUMBER: 40,137
REFERENCE/DOCKET NUMBER: SYP-114
TELEPHONE: (617) 248-7000
TELEPAX: (617) 248-7000
TELEPAX: (617) 248-7000
                                                                                                                                                                                                                GENERAL INFORMATION:
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TITLE OF INVENTION: I
TITLE OF INVENTION: I
TITLE OF INVENTION:
                                                          APPLICANT: DAHLGREN, MARY E.
APPLICANT: BOCER, JOSHUA S.
APPLICANT: HUMES, JOHN L.
TITLE OF INVENTION: ASSAY FOR MARKER OF HUMAN
TITLE OF INVENTION: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY
NUMBER OF SEQUENCES: 71
                                                                                                                  APPLICANT: MUMFORD, RICHARD A. APPLICANT: DAVIES, D.T. PHILIP APPLICANT: DAHLGREN, MARY E. APPLICANT: BOGER, JOSHUA S. APPLICANT: HUMES, JOHN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 02110
COMPUTER READABLE FORM:
                                      CORRESPONDENCE ADDRESS
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CORRESPONDENCE ADDRESS:
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TOPOLOGY: lir
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OPERATING SYSTEM: PC-DOS/MS-DOS
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CITY: Boston
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                      ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                   16; Conservative
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    E: DR.
126 E.
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CHRISTINE E. CARTY
LINCOLN AVENUE., P.O.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 83; DB 2; 100.0%; Pred. No. 3.8e-06;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
      BOX 2000
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; FEATURE:
; OTHER INFORMATION: Antimicrobiocidal peptide designed in part upon ; OTHER INFORMATION: microbiocidal domains from platelet microbial ; OTHER INFORMATION: proteins 1 and 2 (PMP-1 and PMP-2) from rabbits US-09-525-269A-25
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US-09-525-269A-25
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,141A
FILING DATE: 06-7UN-1995
CLASSIFICATION: 435
ATTORNEY/ACTION: 435
                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 09/025,319
PRIOR FILING DATE: 1998-02-18
NUMBER OF SEQ ID NOS: 39
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 25
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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Patent No. 6743769
                                                          Matches
                                                                           Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Antimicrobial Peptides
TITLE OF INVENTION: Metapeptides
FILE REFERENCE: 66742-025 (HR5614)
CURRENT APPLICATION NUMBER: US/09/525,269A
CURRENT FILING DATE: 2000-03-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (908)-594-47
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Yeaman, Michael R. APPLICANT: Shen, Alexander J
                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
HYPOTHETICAL:
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LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: CARTY, CHRISTINE E.
REGISTRATION NUMBER: 36,0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
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REFERENCE/DOCKET NUMBER: 174611B
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STRANDEDNESS: sir
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                                                        1 Similarity
16; Conserv
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1 ADSGEGDFLAEGGGVR 16
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NEW JERSEY
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ilarity 100.0%;
Conservative 0
                                                          Conservative
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                                                                           100.0%; Score 83; DB 4;
100.0%; Pred. No. 3.8e-06;
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Pred. No. 3.8e-06;
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                                                          Mismatches
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PCT-US95-13794-56
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APPLICANT: Jackowski, George
TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR
TITLE OF INVENTION: OF 145 DALTONS
FILE REFERENCE: 2132.035
CURRENT APPLICATION NUMBER: US/09/845,719B
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: Patentin version 3.1
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1, Application US/09845719B
Patent No. 6627606
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Best Local Similarity 100.0%;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: I
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: 1
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NAME: Carty, Christine E.
REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 17461IAY
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-6734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13794
FILLING DATE: 03-NOV-1995
CLASSIFICATION:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: ASSAY FOR MARKER OF DUTTON: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY NUMBER OF SEQUENCES: 71
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ZIP: 07065-0907
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126 E. Lincoln Avenue; P.O. Box 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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Boger, Joshua S.
Humes, John L.
Humes, John L.
VENTION: ASSAY FOR MARKER OF HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (908) 594-4720
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Pred. No. 3.8e-06;
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-845-719B-1
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                                                        Query Match 100.0%; Score 83; DB 3; 1
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 16; Conservative 0; Mismatches 0;
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GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO:
                                                                                                                                                  MOLECULE TYPE:
HYPOTHETICAL: N
ANTI-SENSE: NO
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compartible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIA Release.#1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,141A
PILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 170
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)-594-6734
                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CARTY, CHRISTINE B.
                                                                                                                                   ANTI-SENSE: NO FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: ASSAY FOR MARKER OF HUMAN
TITLE OF INVENTION: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY
                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                           LENGTH: 18 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: RAHWAY
STATE: NEW JERSEY
                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 07065-0907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
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                             1 ADSGEGDFLAEGGGVR 16
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ADSGEGDFLAEGGGVR 16
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HUMES, JOHN L.
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                                                                                                                                                                                                                                                                       (908)-594-4720
TD NO: 55:
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                                                                                                                                                                                                linear
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                                                                                                                                    internal
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                        Length 18;
                                                           Indels
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RESULT 8 PCT-US95-13794-55

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RESULT 9
US-08-469-141A-54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Carty, Christine E.
REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 1746
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-6734
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 55, Application PC/TUS9513794 GENERAL INFORMATION:
                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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APPLICATION NUMBER: PCT/US95/13794 FILING DATE: 03-NOV-1995
CLASSIFICATION:
CLASSIFICATION:
ATTORNEY / ACCESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dahlgren, Mary E.
APPLICANT: Boger, Joshua S.
APPLICANT: Humes, John L.
APPLICANT: Humes, John L.
TITLE OF INVENTION: ASSAY FOR MARKER OF HUMAN
TITLE OF INVENTION: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY
NUMBER OF SEQUENCES: 71
CORRESPONDENCE ADDRESS:
                                                                                                        TITLE OF INVENTION: ASSAY FOR MARKER OF HUMAN
TITLE OF INVENTION: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY
NUMBER OF SEQUENCES: 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                     CORRESPONDENCE ADDRESS
                    STREET: 120
STREET: 120
STTY: RAHWAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Y Match 100.0%;
Local Similarity 100.0%;
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ZIP: 07065-0907
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
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                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            16; Conservative
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                  NEW JERSEY
                                                                                                                                                           MUMFORD, RICHARD A.
DAVIES, D.T. PHILIP
DAHLGREN, MARY E.
BOGER, JOSHUA S.
HUMES, JOHN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    E: Dr. Christine E. Carty
126 E. Lincoln Avenue; P.O. Box 2000
                                                   126 E. LINCOLN AVENUE., P.O.
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18 amino acids
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                                                                    DR. CHRISTINE E. CARTY
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Pred. No. 4.3e-06;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 54, Application PC/TUS9513794 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 16; Conserv
APPLICATION NUMBER: PCT/US95/13794
FILING DATE: 03-NOV-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Carty, Christine E.
REGISTRATION NUMBER: 36,099
REFERENCE/DOCKET NUMBER: 174611AY
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-6734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (908)-594-4720 INFORMATION FOR SEQ ID NO: !
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HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                        SOFTWARE: Patentin Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: CARTY, CHRISTINE B.
REGISTRATION NUMBER: 36,0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: PC compati)
                                                                                                                                                                                                           COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: PC-DOS/MS-DOS

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Mumford,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FRAGMENT TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/469,141A FILING DATE: 06-JUN-1995 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 07065-0907
                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                              New Jersey
                                                                                                                                                                                                                                                                                                                                                                    126 E. Lincoln Avenue; P.O. Box 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                             Hoger, Joshua S.
Humes, John L.
VENTION: ASSAY FOR MARKER OF HUMAN
VENTION: POLYMORPHONUCLEAR LEUKOCYTE ELASTASE ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Davies, D.T. Philip
Dahlgren, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 83; ilarity 100.0%; Pred. No. Conservative 0; Mismatch
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                single
                                                                                                                                                                                                                                                                                                                                                                                          Christine E. Carty
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Richard A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36,099
3ER: 17461IB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                  Version #1.30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE; NO
; FRAGMENT TYPE: internal
PCT-US95-13794-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Applic
Patent No. 5424291
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                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/751,700

FILING DATE: 08-AUG-1991
APPLICATION NUMBER: SE 9102462-0

FILING DATE: 28-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: STETTOR DE D BICHART I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Atrash
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                                                                                                                                                                                                                                             TELEFAX: 212-354-8113 INFORMATION FOR SEQ ID NO:
                                                                                                MOLECULE TYPE: F
HYPOTHETICAL: NO
FRAGMENT TYPE: N
ORIGINAL SOURCE:
                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Szelke, Michael TITLE OF INVENTION: New Is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS
                                                                FEATURE:
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                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
NAME/KEY: Peptide
LOCATION: 1..20
OTHER INFORMATION: /note= "Peptide sequence containing
                                                                                                                                                                                                                                                                                                                   NAME: Sterner Ph.D., Richard J. REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 110332
                                                                                                                                                                   LENGTH: 20 amino TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      / Match 100.0%; Score 83; DB 5;
Local Similarity 100.0%; Pred. No. 4.5e-06
les 16; Conservative 0; Mismatches (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 10036-2787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: New York
                                                                               ORGANISM:
                                                                                                                                                                                                                                                                             TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COPOLOGY: linear
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1155 Avenue of the Americas
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mino acid
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Jones, David M.
                                                                               Homo sapiens
                                                                                                                    N-terminal
                                                                                                                                               peptide
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US-07-984-884-1
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                                                               Matches
                                                                                               Query Match
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                                                                               Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                                              TELEFAX: (212)354-811:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/984,
FILING DATE: 02-DEC-1992
CLASSIFICATION: 514
ATTORNEY, AGENT INFORMATION:
NAME: Sterner, Richard J
REGISTRATION NUMBER: 35, 372
REFERENCE/DOCKET NUMBER: 11033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                               MOLECULE TYPE:
ANTI-SENSE: NO
FRAGMENT TYPE:
                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: (212)819-8200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Teger-Nilsson, Ann-Catrine E
APPLICANT: Bylund, Ruth E
TITLE OF INVENTION: New peptide derivati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Cleavage-site LOCATION: 16..17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: thrombin cleavage site in the human fibrinogen OTHER INFORMATION: A-alpha chain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: United States ZIP: 10036-2787
                                                                                                                                                                                                 TOPOLOGY:
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                                                                               Similarity
                             ADSGEGDFLAEGGGVR 16
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                                                                 Conservative
                                                                                                                                                                                                                                                                                 (212)354-8113
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                                                                                                                                                 N-terminal
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                                                                                                                                                                            peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 83; DB 1; 100.0%; Pred. No. 4.8e-06;
                                                                             100.0%; Score 83; DB 1; 100.0%; Pred. No. 4.8e-06;
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                                                                 Mismatches
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RESULT 13 US-08-481-810-1

Sequence 1, Application US/08481810
Patent No. 5736521
GENERAL INFORMATION:
APPLICANT: Teger-Nilsson, Ann-Ca

Teger-Nilsson, Ann-Catrine E

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RESULT 14
US-08-484-426-1
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; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
US-08-481-810-1
                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/08484426 Patent No. 5747460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (212)819-8200
TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO: 1:
                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC comparible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0.
FILING DATE: 02-DEC-1992
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 11
TELECOMMUNICATION INFORMATION:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/484,426
                                                                                                                                                                                                                                                                 APPLICANT: Teger-Nilsson, Ann-Catrine E
APPLICANT: Bylund, Ruth E
TITLE OF INVENTION: New peptide derivatives
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MEDIUM TYPE: Floppy
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ADDRESSEE: White and
                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: New York
                                                                                                                                                               CITY: New York
STATE: New Yor
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                                                                                                                                            COUNTRY:
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10036-2787
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10036-2787
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)GY: linear
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                                                                                                                                                               New York
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1155 Avenue of the Americas
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1155 Avenue of the Americas
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VENTION: New peptide derivatives
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Pred. No. 4.8e-06;
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RESULT 15
US-08-480-818-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                    TELEFAX: (212)354-811
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                    FILING DATE:
CLASSIFICATION: 514
FRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 02-DEC-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sterner, Richard J
REGISTRATION NUMBER: 35,37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 02-DEC-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: SECTION BIOCHARTION:
                                                                                                                                                                                                                                                                                                                            SOPTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS
LENGTH: 20 amino acid
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TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE: NO FRAGMENT TYPE: N-terminal
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                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
MOLECULE TYPE: peptide
                                                                                    COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
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REGISTRATION NUMBER: 35,372
                TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                       REFERENCE/DOCKET NUMBER:
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)GY: linear
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1155 Avenue of the Americas
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ilarity 100.0%; Pred. No. 4.8e-06;
Conservative 0; Mismatches 0.
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Bylund, Ruth E
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                    (212)819-8200
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Search completed: Job time : 28 secs	Db	δ	Query Match Best Local : Matches 1:	; ANTI-SENSE; ; FRAGMENT TY US-08-480-818-1
Search completed: January 21, 2005, 08:29:37 Job time : 28 secs	1 ADSGEGI	1 ADSGEGI	Query Match 100.0%; Score 83; DB Best Local Similarity 100.0%; Pred. No. 4.8 Matches 16; Conservative 0; Mismatches	ANTI-SENSE: NO FRAGMENT TYPE: N-terminal -480-818-1
nary 21, 2	AbsgegdelAegggvk 16	ADSGEGDFLAEGGGVR 16	100.0 lty 100.0 servative	N-terminal
005, 08:29	16	16	%; Score %; Pred. 1 0; Mism	·
.37	,		83; DB 2; No. 4.8e-0 atches	
			100.0%; Score 83; DB 2; Length 20; 100.0%; Pred. No. 4.8e-06; ative 0; Mismatches 0; Indels	
			0; Gaps	
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Result
No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Title:
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                                                                                                                                                                                                                                                                                                                                                                                              Pred. No.
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                                                                                                                                                                                                                                                                Score
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Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

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16: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

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19: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

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10: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
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length: 2000000000
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                                                                      100.0
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Maximum Match 100%
Listing first 45 summaries
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd
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   115
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           US-09-846-780-1
US-09-826-290-352
US-09-846-765-1
4 US-10-359-363A-2
5 US-10-264-309-8
5 US-10-264-309-8
6 US-10-363-369-3
5 US-10-363-369-3
5 US-10-363-369-4
5 US-10-363-369-6
5 US-10-363-369-6
5 US-10-363-369-6
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           Sequence 352, Appli
Sequence 1, Appli
Sequence 2, Appli
Sequence 8, Appli
Sequence 1, Appli
Sequence 60, Appli
Sequence 63, Appli
Sequence 3, Appli
Sequence 4, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 6, Appli
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US-10-363-369-7	-10-484-	-10-484-568	-10-484-568	-484-568-5	09-845-719#	-10-484-568-	-10-359-363A	-10-112-	36-392	-09-	US-09-931-009A-1	-10-236-392-	-10-2	9-925-297-5	10-363-36	US-10-484-568-62	-10-484-568-	757-774-1	-10-484-568	-10-484-568	-10-484-568-	US-10-484-568-46	-10-484-568-	-10-484-568-	US-10-484-568-43	-10-484-568-	US-10-484-568-41	0-484-568-	0-484-568-	US-10-484-568-10	US-10-484-568-3
7, 1	e 50,	e 38,	e 63,	e 5	,-	27,	2	4	32,	121	۳	36, App	Sequence 34, Appl	587,	15,	62, App	Sequence 61, Appl	16,	49,	48,	47,	e 46,	æ	e 44,	e 43,	e 42,	e 41,	e 40,	Sequence 25, Appl	e 10,	e 3, A

## ALIGNMENTS

RESULT 1 US-09-846-780-1

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RESULT 2
US-09-826-290-352
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-846-780-1
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PATENT NO. US20020160423A1
GENERAL INFORMATION:
APPLICANT: Jackowski, George
TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR TITLE OF INVENTION: OF 1536 DALTONS
FILE REFERENCE: 2132.039
CURRENT APPLICATION NUMBER: US/09/846,780
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
                                                      Sequence 352, Application US/09826290 Patent No. US20020164668A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn version 3.1 SEQ ID NO 1
                                                                                                                                                                                                                                                                 Matches
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Best Local Similarity
APPLICANT: Durham, L.Kathryn
APPLICANT: Friedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
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Pred. No. 1.8e-05;
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TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Alzheimer's Disease
FILE REFERENCE: 25721-001 N2
CURRENT APPLICATION NUMBER: US/09/826,290
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR APPLICATION NUMBER: US 60/253,647
PRIOR APPLICATION NUMBER: US 60/253,647
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 352
LENGTH: 16
TYPE: PRT
ORGANICAL
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Publication No. US20040198950A1
GENERAL INFORMATION:
APPLICANT: Jackowski, George
TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR TITLE OF INVENTION: OF 1518 DALTONS
FILE REFERENCE: 2132.036
CURRENT APPLICATION NUMBER: US/09/845,765
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
LENGTH: 16
TYPE: PRT
ORGANISM: Homo sapiens
[S-09-845-765-1]
Sequence 2, Application US/10359363A
publication No. US20030228371A1
GENERAL INFORMATION:
APPLICANT: Skinner, James E.
APPLICANT: Anchin, Jerry M.
TITLE OF INVENTION: ANTI-INFARCTION MOLECULES
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Matches
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-09-826-290-352
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APPLICANT:
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Stiger, Thomas R.
Sunderland, P. Trey
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Parekh, Rajesh Bhikhu
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larity 100.0%; Pred. No. 1.8e-05;
Conservative 0; Mismatches 0;
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100.0%; Pred. No. 1.8e-05;
tive 0; Mismatches 0;
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FILE REFERENCE: 22118.0001U4
CURRENT APPLICATION NUMBER: US/10/359,363A
CURRENT FILING DATE: 2003-02-05
PRIOR APPLICATION NUMBER: 60/429,278
PRIOR FILING DATE: 2002-11-25
PRIOR APPLICATION NUMBER: 60/392,133
PRIOR FILING DATE: 2002-06-28
PRIOR FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: 60/354,678
PRIOR APPLICATION NUMBER: 60/354,678
PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 104
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 16
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-309-8
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                                                                    Query Match
Best Local Similarity
Matches 16; Conserv
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SOFTWARE: PatentIn Version 2.1
SEQ ID NO 8
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Best Local Similarity
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APPLICANT:
APPLICANT:
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CURRENT FILING DATE: 2002-10-03
                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: TOWNSEND, ROBERT R.
APPLICANT: WHITE, W. FROST
APPLICANT: WILLIAMS, STEPHEN A.
APPLICANT: NUCLETIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
FILE REFERENCE: POA-002.01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Description of Artificial Sequence:/No. US20030228371A1e OTHER INFORMATION: Synthetic Construct
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PAREKH, RAJESH B.
POTTER, DAVID M.
ROHLFF, CHRISTIAN
SILBER, B. MICHAEL
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SOARES, HOLLY D.
STIGER, THOMAS R.
SUNDERLAND, P. TREY
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                                                                            100.0%; Score 83; DB 15; ilarity 100.0%; Pred. No. 1.8e-05; Conservative 0; Mismatches 0;
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APPLICANT: Garcia-Echeverria, Carlos
APPLICANT: Lewis, Claire
APPLICANT: Lewis, Claire
APPLICANT: Robinson, Jeffrey
TITLE OF INVENTION: Peptide Screen
FILE REFERENCE: 4-32520A/32360/361
CURRENT APPLICATION NUMBER: US/10/484,568
CURRENT FILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
SOFTWARE: Patentin version 3.1
SEQ ID NO 60
LENGTH: 16
TYPE: PRT
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                                                                                                                                                                                                                                                                                                               RESULT 8
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US-10-484-568-60
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US-10-325-162-1
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GENERAL INFORMATION:
APPLICANT: K"ster, Hubert
APPLICANT: Siddidi Suhaib
APPLICANT: Little, Daniel
TITLE OF INVENTION: Capture Compounds, Collections Thereof
TITLE OF INVENTION: And Methods For Analyzing The Proteome And Complex
TITLE OF INVENTION: Compositions
FILE REFERENCE: 24743-2305
CURRENT APPLICATION NUMBER: US/10/197,954
CURRENT FILING DATE: 2002-07-16
PRIOR APPLICATION NUMBER: 60/306,019
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APPLICANT: Kupchak, Peter
APPLICANT: Marshall, John
APPLICANT: Jackowski, George
TITLE OF INVENTION: Method of Confirming the Presence of Myocardial Infarction
FILE REFERENCE: 2122.132
CURRENT APPLICATION NUMBER: US/10/325,162
CURRENT FILING DATE: 2002-12-20
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
LENGTH: 16
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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Pred. No. 1.8e-05;
; Mismatches 0;
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APPLICANT: Bioacta Limited
TITLE OF INVENTION: Anti-Angiogenic Peptides
FILE REFERENCE: P38123W0
CURRENT APPLICATION UNMBER: US/10/363,369
CURRENT FILING DATE: 2003-06-23
PRIOR APPLICATION NUMBER: 0021475.9
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 20
SOPTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 24
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                 APPLICANT: BLOACTA Limited
FILTE OF INVENTION: Anti-Angiogenic Peptides
FILE REFERENCE: P38123W0
CURRENT APPLICATION NUMBER: US/10/363,369
CURRENT FILING DATE: 2003-06-23
PRIOR APPLICATION NUMBER: 0021475.9
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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SEQ ID NO 53
LENGTH: 17
TYPE: PRT
RCANISM: Homo Sapien
US-10-197-954-53
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Publication No. US20040039157A1
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Best Local Similarity
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PRIOR APPLICATION NUMBER: 60/314,123
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/363,433
PRIOR FILING DATE: 2002-03-11
NUMBER OF SEQ ID NOS: 149
NAME/KEY: MISC_FEATURE
LOCATION: (23)..(23)
OTHER INFORMATION: any amino acid residue
                                                             TYPE: PRT ORGANISM: Homo sapiens FEATURE:
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Pred. No. 2.7e-05;
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APPLICANT: Bioacta Limited
TITLE OF INVENTION: Anti-Angiogenic Peptides
FILE REFERENCE: 938123WO
CURRENT APPLICATION NUMBER: US/10/363,369
CURRENT FILING DATE: 2003-06-23
PRIOR APPLICATION NUMBER: 0021475.9
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 20
SOPTWARE: Patentin version 3.1
SEQ ID NO 6
LENGTH: 24
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CURRENT FILLING DATE: 2003-06-23
PRIOR APPLICATION NUMBER: 0021475.9
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 20
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 24
TYPE: PRT
CORGANISM: Homo sapiens
                                                                                         ; ORGANISM: Homo sapiens ; FEATURE; ; FEATURE; ; NAME/KEY: MISC_FEATURE ; LOCATION: (17)...(17) ; OTHER INFORMATION: any amino acid residue US-10-363-369-6
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US-10-363-369-5
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Publication No. US20040039157A1
GENERAL INFORMATION:
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APPLICANT: Bioacta Limited
TITLE OF INVENTION: Anti-Angiogenic Peptides
                                Matches
                                             Query Match
Best Local Similarity
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Best Local
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Publication No. US20040039157A1
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TYPE: PRT
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NAME/KEY: MISC_FEATURE
LOCATION: (19) ... (19)
OTHER INFORMATION: any amino acid residue
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Pred. No. 2.7e-05;
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Pred. No. 2.7e-05;
D: Mismatches 0;
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Sequence 3, Application US/10484568
Publication No. US20040248194A1
GENERAL INFORMATION:
APPLICANT: Garcia-Echeveria, Carlos
APPLICANT: Lewis, Claire
APPLICANT: Robinson, Jeffrey
TITLE OF INVENTION: Peptide Screen
FILE REFERENCE: 4-3520A/32360/361
CURRENT APPLICATION NUMBER: US/10/484,568
CURRENT FILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
                                                                                                                         ; OTHER INFORMATION: X = US-10-484-568-3
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-484-568-1
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US-10-484-568-1
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US-10-484-568-3
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APPLICANT: Lewis, Claire
APPLICANT: Newis, Claire
APPLICANT: Robinson, Jeffrey
TITLE OF INVENTION: Peptide Screen
FILE REFERENCE: 4-32520A/32360/361
CURRENT APPLICATION NUMBER: US/10/484,568
CURRENT FILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 24
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Best Local Similarity
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                                                                                                                                                       FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (23)..(23)
                                                                                                                                                                                                                                                                                         TYPE: PRT
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Local Similarity 100.0%;
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Pred. No. 2.7e-05;
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Pred. No.
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RESULT 15 US-10-484-568-10 ; Sequence 10, Application US/10484568

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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Garcia Echeverria, Carlos
APPLICANT: Garcia Echeverria, Carlos
APPLICANT: Hawis, Claire
APPLICANT: Robinson, Jeffrey
ITTLE OF INVENTION: Peptide Screen
FILE REFERENCE: 4-32520A/32360/361
CURRENT PILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
CURRENT APPLICATION NUMBER: US/10/484,568
CURRENT FILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
SOFTWARE: PAT
INFORMATION: X = any amino acid
FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: X = any amino acid
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (22):
OTHER INFORMATION: X = any amino acid
US-10-484-568-10

Quary Match
Best Local Similarity 100.0%; Score 83; DB 17; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.7e-05;
Matches 16; Conservative 0; Mismatches 0; Gaps 0;

QUary Match
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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score
                                                                                                                                               42.5
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Match
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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## ALIGNMENTS

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R; Pu, Y.; Weissbach, L.; Plant, P.W.; Oddoux, C.; Cao, Y.; Liang, T.J.; Roy, S.N.; Redmar Biochemistry 31, 11968-11972, 1992 A;Title: (Carboxy-terminal-extended variant of the human fibrinogen alpha subunit: a nove A;Reference number: A44234; MUID:93090725; PMID:1457396 A;Recession: A44234 A;Accession: A44234 A;Molecule type: mRNA A;Residues: 1-51 cYUl> A;Rosidues: 1-51 cYUl> A;Rosidues	A;Molecule type: mRNA A;Residues: 1-330,'A,32-629 <rix> A;Residues: 1-330,'A,32-629 <rix> A;Cross-references: GB:J00127; NID:g182423; PIDN:AAA52426.1; PID:g182424 A;Cross-references: GB:J00127; NID:g182423; PIDN:AAA52426.1; PID:g182424 R;Imam, A.M.A.; Eaton, M.A.W.; Williamson, R.; Humphries, S. Nucleic Acids Res. 11, 7427-7434, 1983 A;Title: Isolation and characterisation of cDNA clones for the Aalpha- and gamma-chains (A;Reference number: I37393; MUID:84069777; PMID:6689067 A;Reference number: I37393; MUID:84069777; PMID:6689067 A;Recession: 184456 A;Status: translated from GB/EMBL/DDBJ A;Repidues: 110-156 <res> A;Cross-references: GB:K02272; NID:g182427; PIDN:AAA52428.1; PID:g182428</res></rix></rix>	A;Note: the authors translated the codon GAG for residue 247 as Gly, GGA for residue 438 R;Chung, D.W.; Harris, J.E.; Davie, E.W. Adv. Exp. Med. Biol. 281, 39-48, 1990 A;Title: Nucleotide sequences of the three genes coding for human fibrinogen. A;Reference number: A43568; MUID:91344740; PMID:2102623 A;Accession: A43568 A;Molecule type: DNA A;Residues: 1-330,'A',332-644 <chu>A;Residues: 1-330,'A',332-644 <chu>A;Residues: 1-330,'A',332-644 <chu>A;Rixon, M.W.; Chan, W.Y.; Davie, E.W.; Chung, D.W. Biochemistry 22, 3237-3244, 1983 Biochemistry 22, 3237-3244, 1983 A;Reference number: A90468; MUID:83283432; PMID:6688355 A;Recession: A90468; MUID:83283432; PMID:6688355</chu></chu></chu>	RESULT 1 FIGHUA fibrinogen alpha chain precursor, short splice form [validated] - human N;Alternate names: coagulation factor I N;Contains: fibrinopeptide A C;Species: Homo sapiens (man) C;Date: 24-Apr-1984 #sequence revision 30-Jun-1987 #text change 09-Jul-2004 C;Accession: A93956; #443568; #390468; 184456; A44234; C44234; B94433; A90433; B94309; S19 C;Accession: A93956; #Crabtree, G.R. R;Kant, J.A.; Lord, S.T.; Crabtree, G.R. Proc. Natl. Acad. Sci. U.S.A. 80, 3953-3957, 1983 A;Title: Partial mRNA sequences for human Aalpha, Bbeta, and gamma fibrinogen chains: ev. A;Reference number: A93956; MUID:83247396; PMID:6575389 A;Accession: A93956 A;Cross-references: UNIPROT:P02671; GB:J00128; NID:g182425; PIDN:AAA52427.1; PID:g182426 A;Cross-references: UNIPROT:P02671; GB:J00128; NID:g182425; PIDN:AAA52427.1; PID:g182426

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A;Contents: annotation; cross-linking acceptor sites
R;Cottrell, B.A.; Strong, D.D.; Watt, K.W.K.; Doolittle, R.F.
Biochemistry 18, 5405-5410, 1979
A;Title: Amino acid sequence studies on the alpha chain of human fib:
A;Reference number: A90432; MUID: 80088230; PMID: 518845
A;Contents: annotation; cross-linking acceptor sites
R;Henschen, A.; Lottspeich, F.; Kehl, M.; Southan, C.
Ann. N. Y. Acad. Sci. 408, 28-43, 1983
A;Title: Covalent structure of fibrinogen.
A;Reference number: A90037; MUID: 83254370; PMID: 6575689
A;Contents: annotation; review, disulfide bonds
R;Itarte, E.; Plana, M.; Guasch, M.D.; Martos, C.
Biochem. Biophys. Res. Commun. 117, 631-636, 1983
A;Title: Phosphorylation of fibrinogen by casein kinase 1.
A;Reference number: A90116; MUID: 84104274; PMID: 6318767
A;Contents: annotation: phosphorylation of fibrinogen by casein kinase 1.
A;Contents: annotation: phosphorylation of fibrinogen by casein kinase 1.
A;Contents: annotation: phosphorylation of fibrinogen by casein kinase 1.
A;Contents: annotation: phosphorylation of fibrinogen by casein kinase 1.
A;Contents: annotation: phosphorylation of fibrinogen by casein kinase 1.
R;Kimura, S.; Aoki, N.
J. Biol. Chem. 261, 15591-15595,
A;Title: Cross-linking site in f:
A;Reference number: A92565. MITTER
                                                                                                                                                         Annu. Rev. Biochem. 53, 195-229, 1984
A;Title: Fibrinogen and fibrin.
A;Reference number: A90041; MUID:84305751; PMID:6383194
A;Contents: annotation; review, EM structure, polymeriz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Residues: 20-40 <DEW>
R;Retzios, A.D.; Markland Jr., F.S.
Thromb. Res. 52, 541-552, 1988
A;Title: A direct-acting fibrinolytic enzyme from the venom of Agkistrodon contortrix A;Reference number: A60905; MUID:89162316; PMID:3232124
A;Accession: A60905
                                                                                                                                                                                                                                                                                                                                  R;Doolittle, R.F
                                                                                                                                                                                                                                                                                                                                                               A; Contents: annotation; phosphorylation A; Note: about one-third of alpha chain r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Fretto, L.J.; Ferguson, E.W.; Steinman, H.M.; McKee, P.A.
J. Biol. Chem. 253, 2184-2195, 1978
A;Title: Localization of the alpha-chain cross-link acceptor sites of human fibrin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: protein A; Residues: 433-451 < RET>
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A;Accession: $19297
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A;Title: Disulfide bridges in MH-2-terminal
A;Reference number: A94309; MUID:76225080; I
A;Contents: variant, and disulfide bonds
A;Accession: B94309
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A; Residues: 605-644 <FU2>
A; Cross-references: GB:M64982; NID:g458553; PIDN:AAA17055.1;
A; Cross-references: CB:M64982; NID:g458553; PIDN:AAA17055.1;
A; Note: sequence extracted from NCBI backbone (NCBIP:119920)
A; Note: sequence extracted from NCBI backbone (NCBIP:119920)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Reference number: A92225; MUID:78130085; PMID:632262
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A;Title: Purification and characterization by fast-atom-bombardment mass spectincubation with calcium ionophore A23187.
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A;Residues: 20-146,'Q',148-195,'N',197-230,'N',232-316,'SG',319-406,'D',408,'N',410-629
R;Blomback, B.; Hessel, B.; Hogg, D.
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A;Residues: 20-214, 'RS',217-298, 'G',300-303, 'G',305-629 .
R, Matt, K.W., Cottrell, B.A.; Strong, D.D.; Doolittle,
Biochemistry 18, 5410-5416, 1979
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A;Residues: 20-65,'T',67-629 <BLO>
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A;Reference number: A90433; MUID:80088231; PMID:518846
A;Contents: disulfide bonds
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            in fibrinogen : MUID:87057190;
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                                                                                                                                                                                                                                                                                                                                                                       chain molecules in blood were found to be phosphorylate
            for alpha-2-plasmin
; PMID:2877981
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A; Contents: annotation; activity of cell attachment (R-G-D) motif A; Kirschbaum, N.E.; Budzynski, A.Z.
J. Biol. Chem. 265, 13669-13676, 1990
A; Title: A unique proteolytic fragment of human fibrinogen containing the Aalpha COOH-tel A; Reference number: A37117; MUJD:9033797; PMID:2143188
A; Contents: annotation; hementin cleavage site
A; Wote: hementin, a protease from Haementeria ghilianii, the giant South American leech, R; Staendker, L.; Sillard, R.; Bensch, K.W.; Ruf, A.; Raida, M.; Schulz-Knappe, P.; Schep)
Biochem. Biophys Res. Commun. 215, 896-902. 1995
A; Title: In vivo degradation of human fibrinogen A alpha: Detection of cleavage sites and A; Contents: annotation; composition and amino-terminal sequences of carboxyl end peptides C; Comment: Unlike the beta and gamma chains, the alpha chain is not glycosylated. C; Comment: The alpha chain binds by 2-4 cross-links to the amino end of fibronectin. C; Comment: The conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves ization sites responsible for the formation of the soft clot. C; Comment: The soft clot is converted into the hard clot by factor XIIIa (fibrin-stabili; Geoment: All fibrinogen chains are synthesized in the liver. C; Comment: See PIR:D44234 for the minor alternative splice form.
                                                                                                                                                                                                                                                                                                                                                                                    F;20-629/Product: fibrinogen alpha chain #status experimental <MAT>
F;20-35/Product: fibrinogen alpha chain #status experimental <APT>
F;20-35/Product: fibrinogentide A #status experimental <APT>
F;36-629/Product: fibrin alpha chain #status experimental <APT>
F;36-38/Product: fibrinogentide A #status experimental <APT>
F;36-38/Region: polymerization site, binding to the distal domain of the gamma c fibrinogen disulfide ring homology <APTR>
F;57-185/Domain: fibrinogen disulfide ring homology <APTR>
F;57-185/Domain: fibrinogen disulfide ring homology <APTR>
F;57-185/Domain: fibrinogen disulfide ring homology <APTR>
F;591-533/Region: cell attachment (R-G-D) motif
F;224/60/Binding site: Arg-Gly (thrombin) #status experimental
F;35-36/Cleavage site: Arg-Gly (thrombin) #status experimental
F;37-36/Cleavage site: Arg-Gly (thrombin) #status experimental
F;47/Disulfide bonds: interchain (to beta-95) #status experimental
F;64/Disulfide bonds: interchain (to beta-95) #status experimental
F;64/Disulfide bonds: interchain (to beta-23) #status experimental
F;184/Disulfide bonds: interchain (to beta-23) #status experimental
F;288,419/Binding site: carbohydrate (Asn) (covalent) #status absent
F;322/Cross-link: isopeptide (Gln) (interchain to Gln-41 of alpha-2-plasmin inhi:
F;461-491/Disulfide bonds: #status experimental
F;461-491/Disulfide bonds: #status experimental
F;461-491/Disulfide bonds: #status experimental
F;347,385/Cross-link: isopeptide (Gln) (interchain to Gln-41 of alpha-2-plasmin inhi:
F;461-491/Disulfide bonds: #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Pathway: blood coagulation
C;Superfamily: fibrinogen alpha chain; fibrinogen disulfide
C;Keywords: alternative splicing; blood coagulation; coiled
C;Keywords: alternative splicing; blood coagulation; coiled
C;F;1-19/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Note: the list of introns is incomplete C;Complex: The fibrinogen molecule is a hexamer containing two sets of alpha, beta (see I ins are contained in the core. Two three-chain coiled coils emerge from this core and cor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Map position: 4928-4928
A;Introns: 18/3; 60/3; 122/1; 171/2
A;Note: the list of introns is incor
C;Complex: The fibrinogen molecule:
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B;Tille: The fibringen-derived peptide (RGDs) prevents proteolytic degradation of protes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Description: fibrinogen cleaved by thrombin yields monomers that are polymerized into
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                                                                                                                                                                                                                      Local
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                                                                                   ADSGEGDFLAEGGGVR 16
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                                                                                                                                                                                                                                                           Score 83;
                                                                                                                                                                                 Mismatches
                                                                                                                                                                            3.4e-05;
hes 0;
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                                                                                                                                                                                                                                                                                                                                                             (interchain
                                                                                                                                                                                                                                                                     Length 644;
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                                                                                                                                                                                                                                                                                                                                                             of alpha)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gamma
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fibrinogen alpha chain precursor, extended N; Alternate names: coagulation factor I

splice form

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RESULT

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distal domain nodes.
C; Function:
A; Description: fibring
A; Pathway: blood coag
C; Superfamily: human (
C; Keywords: alternati
RESULT 3
A29501
fibrinopeptide l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Keywords: alternative splicing; blood coagulation; glycoprotein; liver; phosphoprotein r;1-19/Domain; signal sequence #status predicted <SIG>F;20-863/Product: fibrinogen alpha chain, extended splice form #status predicted <MAT>F;20-35/Product: fibrinopeptide A #status experimental <APT>F;36-863/Product: fibrin alpha chain, extended splice form #status predicted <FGA>F;7-185/Domain: fibrinogen disulfide ring homology <FDR>F;57-185/Domain: fibrinogen disulfide ring homology <FPRP>F;591-593/Region: cell attachment (R-G-D) motif F;629-863/Domain: fibrinogen beta/gamma homology <FBG>F;22,460/Binding site: phosphate (Ser) (covalent) #status experimental F;35-36/Cleavage site: Arg-Gly (thrombin) #status experimental F;35-36/Cleavage site: Arg-Gly (thrombin) #status experimental F;35-185/Disulfide bonds: interchain (to alpha-47) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Map position: 4q28-4q28
A;Introns: 18/3; 60/3; 122/1; 171/2
A;Note: the list of introns is incomplete
C;Complex: The fibrinogen molecule is a hexamer containing two sets of three nonidentica ntained in the core. Two three-chain coiled coils emerge from this core and connect it t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Note: sequence extracted from NCBI backbone (NCBIP:119917)
C;Comment: The alpha chain binds by 2-4 cross-links to the amino end of fibronectin.
C;Comment: The conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves the responsible for the formation of the soft clot.
C;Comment: The soft clot is converted into the hard clot by factor XIIIa (fibrin-stabilinger) and between alpha chains (weaker) of different monomers.
C;Comment: All fibrinogen chains are synthesized in the liver.
C;Comment: See PIR:FGHUA for the major splice form. It is not known whether this form in C;Comment: See PIR:FGHUA for the major splice form.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;64/Disulfide bonds: interchain (to gamma-49) #status experimental
F;68/Disulfide bonds: interchain (to beta-106) #status experimental
F;180/Disulfide bonds: interchain (to gamma-165) #status experimental
F;184/Disulfide bonds: interchain (to beta-22) #status experimental
F;184/Disulfide bonds: interchain (to beta-22) #status experimental
F;288,419/Binding site: carbohydrate (Asn) (covalent) #status absent
F;288,419/Binding site: carbohydrate (Asn) (covalent) #status absent
F;322/cross-link: isopeptide (Lys) (interchain to Gln-41 of alpha-7-plasmin inhibitor) #
F;347,385/cross-link: isopeptide (Gln) (interchain to Lys N6-amino of alpha) #status
F;347,385/cross-link: isopeptide (Gln) (interchain to Gln of alpha) #status
F;347,358,575,581,599/cross-link: isopeptide (Lys) (interchain to Gln of alpha) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Title: Carboxy-terminal-extended variant of the human fibrinogen alpha subunit: a A;Reference number: A44234; MUID:93090725; PMID:1457396 A;Accession: D44234
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A; Residues: 605-866 <FU2>
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A;Note: neither the complete nucleic acid sequence nor the complete translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA; DNA
A; Residues: 1-866 <FU1>
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Date: 10-Jun-1993 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;686,831/Binding site: carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Superfamily: human extended splice form fibrinogen alpha chain; fibrinogen beta/gamma;
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                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                         Local
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                                                                                                                                                                                                                                                                ADSGEGDFLAEGGGVR 16
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       A - baboon
                                                                                                                                                                                                                                                                                                                                          Conservative
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Pred. No. 4.6e-05;
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C; Species: Papio sp. (baboon)
C; Date: 21-Nov-1987 #sequence_revision 21-1
C; Accession: A29501
R; Blombaeck, B.; Blombaeck, M.; Hann, C.
unpublished results, cited by Blombaeck, B.; A; Reference number: A29501
A; Accession: A29501
A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Contains: fibrinopeptide A
C;Species: Erythrocebus patas (red guenon, hussar)
C;Date: 05-Jun-1988 #sequence_revision 10-Mar-1994
C;Accession: B24180
R;Nakamura, S; Takenaka, O.; Takahashi, K.
J. Biochem. 97, 1487-1492, 1985
                                                                                                                                                                                                                 C;Date: 05-Jun-1988 #sequence_revision 05-J
C;Accession: A24180
R;Nakamura, S.; Takenaka, O.; Takahashi, K.
J. Biochem. 97, 1487-1492, 1985
A;Title: Fibrinopeptides A and B of Japanes
uenons, and baboons.
                                                                                                                                                                               A;Reference number: A91990; MUID:85289140; PMID:3928610 A;Accession: A24180
                                                                                                                                                                                                                                                                                                                    fibrinogen alpha chain - Japanese macaque (fragment)
N;Contains: fibrinopeptide A
C;Species: Macaca fuscata (Japanese macaque)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: protein
A;Residues: 1-16 <NAK>
A;Crose-references: UNIPROT:P12803
C;Superfamily: fibrinogen alpha chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Reference number: A91990; MUID:85289140; PMID:3928610 A; Accession: B24180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fibrinogen alpha chain - red guenon (fragment)
N;Contains: fibrinopeptide A
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A;Residues: 1-16 <BLO>
C;Superfamily: fibrinogen alpha chain;
                                                                                                             A;Cross-references: UNIPROT:P12803
C;Superfamily: fibrinogen alpha ch
                                                                                                                                               A; Molecule type: protein A; Residues: 1-16 < NAK>
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ADSGEGDFLAEGGGVR 16
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93.8%;
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                                                            Score 80; I
Pred. No. 2
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J. Blochem. 94, 1973-1978, 1983
A;Title: Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas, and Theropi A;Reference number: A91973; MUID:84161822; PMID:6423621
A;Accession: B28854
                                                                                                                                                                                                                                                                                                                                                 fibrinopeptide A - olive baboon
C;Species: Papio anubis, Papio hamadryas anubis (olive baboon)
C;Date: 19-May-1989 #sequence_revision 19-May-1989 #text_change 09-Jul-2004
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A28854
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J. Blochem. 94, 1973-1978, 1983
A;Title: Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas, and Theropit A;Reference number: A91973; MUID:84161822; PMID:6423621
A;Accession: C28854
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C;Species: Papio hamadryas (hamadryas baboon)
C;Date: 19-May-1989 #sequence_revision 19-May
C;Accession: B28854
                                                                                                                                                                                                                                                                 R;Nakamura, S.; Takenaka, O.; Takahashi, K.
J. Biochem. 94, 1973-1978, 1983
A;Title: Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas, and Theropit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:p12803
C;Superfamily: fibrinogen alpha chain; fibrinogen disulfide ring
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C;Accession: C28854
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A;Accession: A28854
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C;Superfamily: fibrinogen alpha chain; fibrinogen disulfide ring
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Best Local Similarity
Matches 15; Conserv
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Best Local
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Superfamily: fibrinogen alpha ch
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Theropithecus gelada (gelada baboon)
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93.8%;
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93.8%;
                                                                            96.4%;
93.8%;
                                                                                                                                         alpha chain; fibrinogen disulfide ring
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Pred. No. 2.2e-06;
1; Mismatches C
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                                                    Score 80; DB 2;
Pred. No. 2.2e-06;
1; Mismatches (
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RESULT 11
A05296
AD5296
fibrinogen alpha chain - dog (fragment)
fibrinogen alpha chain
fibrinogen alpha chain - dog (fragment)
fibrinogen alpha chain - d
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C;Accession: H29501
R;Blombaeck, B.; Blombaeck, M.; Hann, C.
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C;Species: Halichoerus grypus (gray seal)
C;Date: 21-Nov-1987 #sequence_revision 21-Nov-1987 #text_change 09-Jul-2004
                                                    A;Cross-references: UNIPROT:P02673
R;Blombaeck, B.; Blombaeck, M.; Groendahl, N.J.
Acta Chem. Scand. 19, 1789-1791, 1965
A;Title: Studies on fibrinopeptides from mammals.
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R; Blombaeck, B.; Blombaeck, M.; Hann,
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C;Date: 21-Nov-1987 #sequence_revision 08-Jun-1990 #text_change 09-Jul-2004
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C;Superfamily: fibrinogen beta chain; fibrinogen beta/gamma homology; fibrinogen disulfir
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C;Superfamily: fibrinogen beta chain; fibrinogen beta/gamma homology;
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A;Reference number: A03118
A;Accession: A03118
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by Blombaeck,
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Pred. No. 0.00
2; Mismatches
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Pred. No. 0.0015;
1; Mismatches
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C;Species: Alces alces (European C;Date: 21-Nov-1987 #sequence_revision C;Accession: B29501
R;Blombaeck, B.; Blombaeck M
                                                                                                                                                                             A;Molecule type: protein
A;Residues: 20-26,'Y', 28-49;55-80;81-108 <HEN>
A;Cross-references: UNIPROT: P02672
R;Chung, D.W.; Rixon, M.W.; Davie, E.W.
in Proteins in Biology and Medicine, Bradshaw, R.A., ed., Firitle: The biosynthesis of fibrinogen and the cloning of
                                                                                                                                                                                                                                                                                                                                                                fibrinogen alpha chain - bovine (fragments)

N;Contains: fibrinogeptide A

C;Species: Bos primigenius taurus (cattle)

C;Species: Bos primigenius taurus (cattle)

C;Date: 05-Jun-1997 #sequence revision 10-Mar-1994 #text change 09-Jul-2004

C;Accession: A05294; A25715; A03117; A37505; A37506; A37507; B37505; C03117

R;Henschen, A.; Lottspeich, F.; Topfer-Petersen, E.; Kehl, M.; Timpl, R.
in Protides of the Biological Fluids, Proc. 28th Collog., ed. Peeters, H., I
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A;Molecule type: protein
A;Residues: 1,'D','3,'EGKO',8-16 <OSB>
C;Superfamily: fibrinogen alpha chain; fibrinogen disulfide ring
C;Keywords: blood coagulation; liver; phosphoprotein; plasma
F;1-16/Product: fibrinopeptide A #status experimental <APT>
F;3/Binding site: phosphate (Ser) (covalent) (partial) #status ex
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R;Osbahr Jr., A.J.; Colman, R.W.; Laki, K.; Gladner,
Biochem. Biophys. Res. Commun. 14, 555-558, 1964
A;Reference number: A37511; MUID:66020594; PMID:5836;
A;Accession: A37511
                                               A;Molecule type: mRNA
A;Residues: 109-311 <CHU>
R;Sjoquist, J.; Blomback, B
Ark. Kemi 16, 425-436, 1960
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A; Accession: A05294
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A; Title: Amino acid sequence of bovine fibrinopeptides. A; Reference number: A03117
                                                                                                                                         A; Reference number: A25715
A; Accession: A25715
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C;Superfamily: fibrinogen beta chain; fibrinogen beta/gamma homology; fibrinogen
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by Blombaeck,
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C;Accession: E29501
R;Blombaeck, B; Blombaeck,
unpublished results, cited
A;Reference number: A29501
A;Accession: E29501

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09-Jul-2004

fibrinopeptide A - pig C;Species: Sus scrofa domestica (domestic pig) C;Date: 21-Nov-1987 #sequence\_revision 21-Nov-1987

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A,Molecule type: protein
A,Residues: 20-54 <TIM>
R,Residues: 20-54 <TIM>
R;Martinelli, R.A.; Inglis, A.S.; Rubira, M.R.; Hageman, T.
Arch. Biochem. Biophys. 192, 27-32, 1979
A;Title: Amino acid sequences of portions of the alpha and A;Reference number: A37507; MUID:79164394; PMID:434821
A;Accession: A37507
                                                                                                                                                                                                                      A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-15 <BLO>
A;Cross-references: UNIPROT:Q7M318
C;Superfamily: fibrinogen alpha chain;
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A;Molecule type: protein
A;Residues: 23-52 <MAR>
A;Residues: 23-52 <MAR>
C;Superfamily: fibrinogen alpha chain; fibrinogen disulfide ring homology
C;Superside blood coagulation; liver; plasma
F;1-19/Product: fibrinogeptide A #status experimental <APT>
F;20-311/Product: fibrinogen alpha chain (fragments) #status experimental <MAT>
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A;Residues: 1-19 <FOL>
R;Timpl, R.; Fietzek, P.P.; Wachter, E.; van Delden, V.
R;Timpl, R.; Acta 490, 420-429, 1977
Biochim. Biophys. Acta 490, 420-429, 1977
A;Title: Disulfide-linked cyanogen bromide peptides of bovine fibrinogen.
A;Reference number: A37506; MUID:77112616; PMID:836881
A;Accession: A37506
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A;Residues: 1-19 <5UO>
R;Folk, J. B.; Gladner, J.A.; Levin,
J. Biol. Chem. 234, 2317-2320, 1959
A;Title: Thrombin induced formation
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R;Blombaeck, B.; Blombaeck,
unpublished results, cited
A;Reference number: A29501
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C;Date: 21-Nov-1987 #sequence_revision 08-Jun-1990 #text_change
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A;Residues; 1-17 cBCD;
A;Cross-references; UNIRON:p14460
A;Cross-references; UNIRON:p1460
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
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RA Diatchenko L., Marusina K., Farmer A.A., Raninci P., Prange C.,
RA Brownstein M.J., Ugdin T.B., Bonaldo M.F., Casavant T.L., Scheetz T.B.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Bosak S.A., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Haheseley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Rodriguez A.C., Shavchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Shavchman J.W., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Rodriguez A.C., Shavchman J.W., Schmutz J., Schnerch A., Schein J.E.,
RA Rodriguez A.C., Shavchman J.W., Schmutz J., Myers R.M., Schein J.E.,
RA Rodriguez A.C., Shavchman J.W., Schmutz J., Schnerch A., Schein J.E.,
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Name=FCA;
Homo sapiens (Human).
- 'arvota; Metazoa; Chordata; 'Arvota; Metazoa; Primates;
MEDLINE=22388257; PubMed=12477932; Strausberg R.L., Feingold E.A., Grouse L.H., Klausner R.D., Collins F.S., Wagner L., Shenn
                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                       Eukaryota; Metazoa; Mammalia; Eutheria;
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DE Fibrinogen alpha/alpha-E chain pr
GN Name=FGA;
OS Eukaryota; Metazoa; Chordata; Cra
Mammalia; Entheria; Primates; Cat
OX NCBI_TaxID=9606;
RN [1]

RN SEQUENCE FROM N.A. (ISOFORM ALPHA
RX MEDLINE=93090725; PubMed=1457396;
RA PU Y., Weissbach L., Plant P.W.
RA PU Y., Weissbach L., Plant P.W.
RA PU Y., Weissbach L., Plant P.W.
RA ROY S.N., Redman C.M., Grieninger
RT subunit: a novel exon conferring
RT subunit: a novel exon conferring
RT subunit: a novel exon conferring
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RL GIOCHEMISTRY 31:11968-11972(1992)
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM ALPHA
RA Chung D.W., Grieninger G.;
RI (In) Ebert R.F. (eds.);
RL (In) Ebert R.F. (eds.);
RL (1994).
RN [3]
RP SEQUENCE FROM N.A. (ALPHA-E; ALPH
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Redman C., Doolittle F
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fibrinogen-420.";
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J. Biol. Chem. 261:15591-15595(1986).
                                                                                                            VARIANT LIMA.
MEDLINE=92340680;
                                                                                                                                                                                  Yoshida N.,
"Fibrinogen
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MEDLINE=99175089; PubMed=10074346;
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MEDLINE=98292395; PubMed=9628725;
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crosslihked counterpart from fibrin.";
Nature 389:455-462(1997).
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MEDLINE=97472408; PubMed=9333233;
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                                                                                                                                                     da N., Okuma M., Hirata H., Matsuda M., Yamazumi K., A inogen Kyoto II, a new congenitally abnormal molecule, cterized by the replacement of A alpha proline-18 by 178:149-153(1991).
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NE=98356117; PubMed=9689040;
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Doolittle R.F., Grieninger G.
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hem. 53:195-229(1984)
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M., Guasch M.D.,
of fibrinogen by
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Nakamura S., Takenaka O., Takahashi K.;
"Fibrinopeptides A and B of Japanese monkey (Macaca fuscata)
monkey (Erythrocebus patas): their amino acid sequences, resumented in the monkey for macaques, guenons,
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  SPECIES=C.aethiops, M.mulatta, Blomback B., Blomback M., Gron "Studies on fibrinopeptides fr
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"An A alpha Ser-434 to N-glycosylated dysfibrinogen, fibrinogen Caracas II, gel formation.";
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NCBI_TaxID=9543;
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Macaca fascicularis (Tobanica mularis)
Macaca mularta (Tobanica macaque)
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05-JUL-2004 (Rel. 44, Last annotation updat
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Takahashi N., de
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Theropithecus gelada (Gelada baboon)
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                                                                                                          brinopeptides A and B of baboons (Papio anubis, Pag
Theropithecus gelada): their amino acid sequences
es and a molecular phylogeny for the baboons.";
Biochem. 94:1973-1978(1983).
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Grondahl N.J., Guthrie C
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d C., Soria J.,
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RESULT 6
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NON_TER
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eu
Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae;
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01-JAN-1990 (Rel.
05-JUL-2004 (Rel.
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PIR;
PIR;
PIR;
                                                                                                                                             for the formation of the soft clot. Blood coagulation; Direct protein sequencing;
                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9580;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Name=FGA;
                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                at position B-3.";
Science 170:468-470(1970).
                                                                                                                                                                                                                                                                                                         Mross G.A., Doolittle R.F., Roberts B.F. "Gibbon fibrinopeptides: identification
                                                                                                                                                                                                                                                                                                                                     MEDLINE=70294424;
                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                            Fibrinogen alpha
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2, A24180; A24180.

2, A2854; A2854.

3, B24180; B24180.

3, B28854; B28854.

2, C28854; C28854.
                                                                                                                                                                      aggregation.
SUBUNIT: Hexamer containing 2 sets of 3 nonidentical chains
SUBUNIT: Hexamer containing 1 inked to each other by disulfide bonds.
(alpha, beta and gamma), linked to each other by disulfide bonds.
PTM: Conversion of fibrinogen to fibrin is triggered by thrombin,
which cleaves fibrinopeptides A and B from alpha and beta chains,
and thus exposes the N-terminal polymerization sites responsible
                                                                                                                                                                                                                                                      FUNCTION: Fibrinogen has a polymerize into fibrin and
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SUBUNIT: Hexamer containing 2 sets of 3 nonidentical cua...

SUBUNIT: Hexamer containing 2 sets of 3 nonidentical cua...

(alpha, beta and gamma), linked to each other by disulfide bonds.

(alpha, beta and gamma), linked to fibrin is triggered by thrombin,

PTM: Conversion of fibrinogen to fibrin is triggered by thrombin,

PTM: Conversion of fibrinogen to fibrin alpha and beta chains,

or and a fibrinomentides A and B from alpha and beta chains,

or and a fibrinomentides A and B from alpha and beta chains,
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NN: Fibrinogen has a double function: yielding monome
rize into fibrin and acting as a cofactor in platelet
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13, Last sequence update)
44, Last annotation updat
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Pred. No. 3.5e-05;
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Biochim. Biophys. Acta 175:217-219(1969).
-I- FUNCTION: Fibrinogen has a double function: yiel polymerize into fibrin and acting as a cofactor
                                                                                                                                                                                                                                                                                                                                                                                                       Camelus dromedarius (Dromedary) (Arabian camel).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Tylopoda; Camelidae; Camelus
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01-JAN-1990 (Rel. 13,
01-JAN-1990 (Rel. 13,
05-JUL-2004 (Rel. 44,
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Doolittle R.F., Glascow C., Mross G.A.;
"Characterization of fibrinopeptides A and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mandrillus leucophaeus (Drill) (Papio leucophaeus).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Butheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Mandrillus.
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(alpha, beta and gamma), linked to each other by distributed to conversion of fibringen to fibrin is triggered which cleaves fibrinopeptides A and B from alpha and thus exposes the N-terminal polymerization sites for the formation of the soft clot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polymerize into fibrin and a aggregation.
SUBUNIT: Hexamer containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUBUNIT: Hexamer containing 2 sets of 3 nonidentical chains (alpha, beta and gamma), linked to each other by disulfide bonds. PTM: Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot.
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Blomback B., Blomback M., Grondanı N.U.,
"Studies on fibrinopeptides from mammals."
Acta Chem. Scand. 19:1789-1791(1965).

-i- FUNCTION: Fibrinogen has a double fun
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MEDLINE=67209145; PubMed=6033721;
Doolittle R.F., Schubert D., Schw
                                                                                                               01-JAN-1990 (Rel. 13, Created)
01-JAN-1990 (Rel. 13, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Fibrinogen alpha chain [Contains: Fibrinopeptide
                                                                                                                                                                                                                                                                                                                                                   -!- SUBUNIT: Hexamer containing 2 sets of 3 nonidentical chains (alpha, beta and gamma), linked to each other by disulfide bonds.
-!- PTM: Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot.

Blood coagulation; Direct protein sequencing; Plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Cranial
Mammalia; Eutheria; Cetartiodactyla;
Bovinae; Bison.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JAN-1990 (Rel. 13, Created)
01-JAN-1990 (Rel. 13, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
                                           NCBI_TaxID=9970,
                                                                                          Syncerus caffer (Cape buffalo)
                                                                                                    Name=FGA;
                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9902;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bison bonasus (European bison).
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Name=FGA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P14441;
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                                                                                                                                                                                                                                                                                                                                                                                                                        aggregation.
SUBUNIT: Hex
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                                                          Syncerus.
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                                                                                                                                                                       STANDARD;
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                                                                                                                                                                                                                                                                                                                      1836 MW;
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                                                                     Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                78.3%;
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75.0%;
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                                                                                                                                                                                                                                                                                   Score 64;
Pred. No.
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Pred. No. 0.0076;
                                                                                                                                                                                                                                                                                                                      9BA55A0F473B59C5
                                                                                                                                                                                                                                                                                                                                           Fibrinopeptide
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                                                                                                                 (Fragment)
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Schwartz S.A.;

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RESULT 11
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ID FIBA CON 101-JAN
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DT 01-JAN
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DE FIBA CON NAME=F
OS CETATO
OC MAMMAIN
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RESULT
Q7M3I6
ID Q7
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                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 11
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Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FIBA CERSI STANDARD;
p14535;
01-JAN-1990 (Rel. 13, Cr
01-JAN-1990 (Rel. 13, La
05-JUL-2004 (Rel. 44, La
Fibrinogen alpha chain [
Name=FGA;
Q7M316;
Q7M316;
01-MAR-2004
01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- SUBUNIT: Hexamer containing 2 sets of 3 nonidentical chains (alpha, beta and gamma), linked to each other by disulfide bonds.
-!- PPW: Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot.

Blood coagulation; Direct protein sequencing; Plasma.
PEPTIDE
1 15 Fibrinopeptide A.
                                                                                                                                                                                                                                                                                                                                                                                                                                 PEPTIDE
NON_TER
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NON_TER
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Arch. Biochem. Biophys. 118:456-467(1967).

-i- FUNCTION: Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Mammalian phylogeny based on f
Syst. Zool. 22:590-595(1973).
-i-FUNCTION: Fibrinogen has a
polymerize into fibrin and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         O'Neil P.B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ceratotherium simum (White rhinoceros) (Square-lipped rhinoceros). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Perissodactyla; Rhinocerotidae; Ceratotherium.
                                                                                                                                                                                                                                                                                                                                                                                                            SEQÜENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   aggregation.

SUBUNIT: Hexamer containing 2 sets of 3 nonidentical (alpha, beta and gamma), linked to each other by disuping. Conversion of fibrinogen to fibrin is triggered which cleaves fibrinopeptides A and B from alpha and and thus exposes the N-terminal polymerization sites for the formation of the soft clot. Sites od coagulation; Direct protein sequencing; Plasma.
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SUBUNIT: Hex
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                                                                                                                                                                                                       ETTEGDFIAEGGGVR
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                                                                                                                                                                                                                                                                                                                                                                                                            16 AA;
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(TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                        Conservative
                                                                            PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                            1639 MW;
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based on
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73.3%;
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73.3%;
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Last annotation update)
n [Contains: Fibrinopeptide
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26,
26,
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Last
                          Created)
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Pred. No. 0.01
3; Mismatches
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2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fibrinopeptide
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                                                                            PRT;
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lacting
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sequence update)
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0.018;
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0.019;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   yielding monomers
ctor in platelet
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                                                                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  by thrombin, beta chains, responsible
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RESULT 14
FIBA_LAMGL
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Best Local S
Matches 11
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Best Local S
Matches 12
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Eukaryota; Metazoa; C
Mammalia; Eutheria; C
NCBI TaxID=9641;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Q7M3I7
Q7M3I7;
Q1-MAR-2004
01-MAR-2004
01-MAR-2004
                                                                01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Pibrinopeptide A.
Halichoerus grypus (Gray seal).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalla; Butheria; Carnivora; Pinnipedia; Phocidae; Halichoerus.
MCBI_TaxID=9711;
Lama glama (Llama), and
Lama vicugna (Vicugna) (Vicugna vicugna).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butele
Mammalia; Eutheria; Cetartiodactyla; Tylopoda; Camelidae;
NCBI_TaxID=9844, 9843;
                                                                                                                                                                                                                                                                                                             Blombaeck B., Blombaeck M., Unpublished results, cited l Blombaeck B., Blombaeck M.; (In) Hawkes J.G. (eds.);
                                                                                                                                                                                                                                                                                  PIR;
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Unpublished results, cit
Blombaeck B., Blombaeck
(In) Hawkes J.G. (eds.);
                                                                                                                          FIBA_LAMGL
                                                                                                                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                G29501;
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                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DSGEGDFLAEGGGVR
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SEQUENCE OF 1-16.
SPECIES=C.familiaris, and V.vulpes;
SPECIES=C.familiaris, and V.vulpes;
Blomback B., Blomback M., Grondahl N.J.;
Blomback B., Blomback M., Grondahl N.J.;
"Studies on fibrinopeptides from mammals.";
"Studies on fibrinopeptides from mammals.";
"Studies on fibrinopeptides from mammals.";
                                                                                                                                                                                                                                                                                                   SEQUENCE: SPECIES=C.familiaris;
SPECIES=C.familiaris;
MEDLINE=76081726; PubMed=1198547;
Birken S., Wilner G.D., Canfield R.E.;
"Studies of the structure of canine fibrinogen.";
Thromb. Res. 7:599-610(1975).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FIBA CANFA

FIBA CANFA

P02673; P14464;

21-JTL-1986 (Rel. 01, Created)

O1-NOV-1990 (Rel. 16, Last sequence update)

05-JTL-2004 (Rel. 44, Last annotation update)

O5-JTL-2004 (Rel. 44, Contains: Fibrinopeptide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PEPTIDE
NON TER
SEQUENCE
                                              MEDLINE=66020594; PubMed=5836555;
Ogbahr A.J. Jr., Colman R.W., Laki K., Gladner J.A.;
"The nature of the peptides released from canine fibrinogen.";
Biochem. Biophys. Res. Commun. 14:555-558(1964).
-I- FUNCTION: Fibrinogen has a double function: yielding monomers polymerize into fibrin and acting as a cofactor in platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Blood
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SEGUENCE.
SPECIES=L.vicugna;
SPECIES=L.vicugna;
-- G.A., Doolittle R.F.;
-- G.A., Doolittle R.F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; NCBI_TaxID=9615, 9627;
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                                                                                                                                                               SPECIES-C.
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[2]
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                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9615,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vulpes vulpes (Red fox).
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SPECIES=L.glama;
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SUBUNIT: Hexamer containing 2 sets of 3 nonidentical SUBUNIT: Hexamer containing 1 linked to each other by disu plan, beta and gamma), linked to each other by disu plan; Conversion of fibrinogen to fibrin is triggered which cleaves fibrinopeptides A and B from alpha and and thus exposes the N-terminal polymerization sites for the formation of the soft clot.

Od coagulation; Direct protein sequencing; Plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ino acid sequence studies on artiodacty fibrinopeptides.", holochem. Biophys. 122:674-684(1967). FUNCTION: Fibrinogen has a double function: yielding monopenymerize into fibrin and acting as a cofactor in plately
                  aggregation.
SUBUNIT: Hex
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is triggered by thrombin,
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Blood coagulation; Direct protein sequencing; Phosphore PEPTIDE 1 16 Fibrinopeptide A. MOD RES 3 3 Phosphoserine (partial).

CONFLICT 2 2 N -> D (in Ref. 2).

CONFLICT 4 7 KEGE -> EGKQ (in Ref. 2)
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